

(12) DEMANDE INTERNATIONALE PUBLIÉE EN VERTU DU TRAITÉ DE COOPÉRATION
EN MATIÈRE DE BREVETS (PCT)

(19) Organisation Mondiale de la Propriété
Intellectuelle
Bureau international



(43) Date de la publication internationale
17 mars 2005 (17.03.2005)

PCT

(10) Numéro de publication internationale
WO 2005/025089 A1

(51) Classification internationale des brevets⁷ : **H04B 7/26**,
H04Q 7/38

(72) Inventeur; et

(75) Inventeur/Déposant (pour US seulement) : **MARTIN**,
Béatrice [FR/FR]; 84, rue Monge, F-75005 Paris (FR).

(21) Numéro de la demande internationale :

PCT/FR2004/001696

(74) Mandataires : **HEDARCHET, Stéphane** etc.; Compag-
nie Financière Alcatel, Département Propriété Industrielle,
54 rue La Boétie, F-75008 Paris (FR).

(22) Date de dépôt international : 30 juin 2004 (30.06.2004)

(25) Langue de dépôt : français

(26) Langue de publication : français

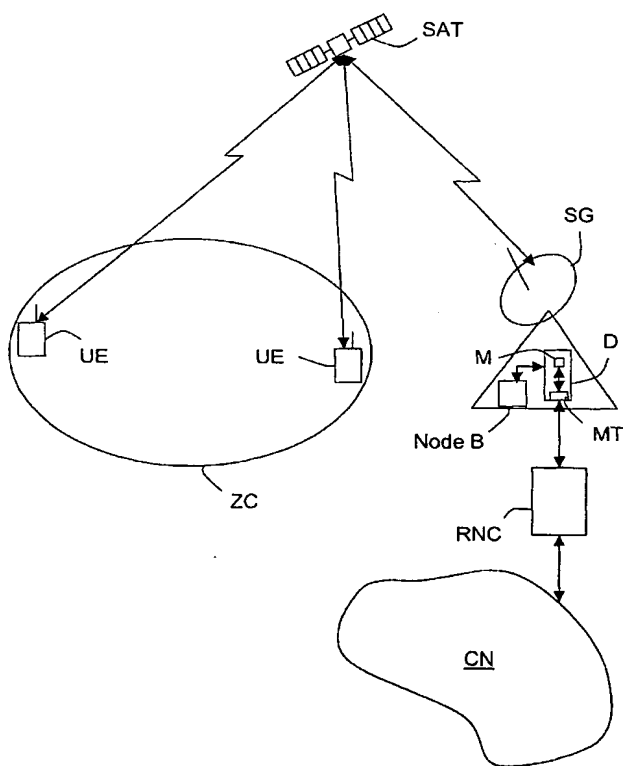
(30) Données relatives à la priorité :
03/10092 22 août 2003 (22.08.2003) FR

(81) États désignés (sauf indication contraire, pour tout titre de
protection nationale disponible) : AE, AG, AL, AM, AT,
AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO,
CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB,
GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG,
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,

[Suite sur la page suivante]

(54) Title: METHOD OF MANAGING ACCESS TO A RANDOM-ACCESS COMMUNICATION NETWORK

(54) Titre : GESTION DE L'ACCES A UN RESEAU DE COMMUNICATIONS A ACCES ALEATOIRE



(57) Abstract: The invention relates to a device (D) which is dedicated to the management of communications in a base station (SB) of a random-access communication network. The inventive device comprises processing means (MT) which are responsible for: (i) dividing the time intervals into slots, whereby each slot is associated with an access slot during which a terminal (UE) can transmit a network access request and whereby the width of each slot is equal to the duration of an access request; (ii) sub-dividing the time intervals into sub-intervals (SI) comprising a number of consecutive slots which is at least equal to two; (iii) in each sub-interval (SI), designating at least one invalid slot which is associated with an invalid access slot; (iv) in each sub-interval (SI), defining a number of temporally-offset windows (F) having a width equal to that of a slot, said number being at least equal to the number of slots in the sub-interval; (v) upon receipt of an access request transmitted by a calling terminal (UE), using the window (F) belonging to the access request to deduce at least one access time of the calling terminal in relation to a reference, and, subsequently, using said access time to determine the instant of transmission of an acknowledgement message to the calling terminal (UE), such that the terminal can receive the message in a pre-defined acknowledgement time interval.

[Suite sur la page suivante]

WO 2005/025089 A1